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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,594	09/19/2003	Dodd H. Grande	KTWO121704	3653

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EXAMINER

STAICOVICI, STEFAN

ART UNIT	PAPER NUMBER
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1732

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/664,594

Applicant(s)

GRANDE, DODD H.

Examiner

Stefan Staicovici

Art Unit

1732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9/19/03 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1/26/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because the abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. As such, the abstract should be drawn to a process of constructing a skate frame. Correction is required. See MPEP § 608.01(b).
2. The disclosure is objected to because of the following informalities: on page 1, line 5, after "2002," --now U.S. Patent No. 6,648,344,-- should be inserted.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-2 and 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu (US Patent No. 5,732,958) in view of Buzza *et al.* (US Patent No. 5,625,999).

Liu ('958) teaches the basic claimed process of making a skate frame including providing an outer layer (20) made from a fiber reinforced resin composite material, providing an inner core foam material (30), positioning said inner core (30) between the two side walls (22) of the

outer layer (20) that is placed in a mold, heating said mold and, curing said resin to bond said inner core (30) to said outer layer (20) and form said skate frame (see col. 2, lines 22-30).

Regarding claims 1 and 4-5, Liu ('958) does not teach a second outer layer and a decorative layer. Buzza *et al.* ('999) teach a fiber reinforced resin panel having an outer decorative gel layer, an outer fiber reinforced resin layer, an inner foam core and an inner fiber reinforced resin layer that are bonded integrally together during the fabrication of said panel in a heated mold (see col. 4, line 66 through col. 6, line 23). Therefore, it would have been obvious for one of ordinary skill in the art to have provided a decorative layer and an additional inner fiber reinforced resin layer as taught by Buzza *et al.* ('999) to the layup in the process of Liu ('958) because, Buzza *et al.* ('999) teach that the integrity and strength of the panel is increased because it is known that load transfer is more uniform if the inner foam core is sandwiched between two fiber reinforced resin layers rather than using a single fiber reinforced resin layer which would result in a weaker panel and also because, Buzza *et al.* ('999) teach that a decorative layer provides for improved aesthetic appeal, hence providing for an improved molded product.

In regard to claim 2, Liu ('958) teaches an inner foam core, hence it is submitted that the density of a foam material is less than that of a fiber reinforced resin material.

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu (US Patent No. 5,732,958) in view of Buzza *et al.* (US Patent No. 5,625,999) and Benoit (US Patent No. 6,345,827).

Liu ('958) in view of Buzza *et al.* ('999) teach the basic claimed process as described above.

Regarding claim 3, although Liu ('958) teaches using a thicker, enforced section (23) for mounting rollers (see col. 2, lines 5-9), Liu ('958) in view of Buzza *et al.* ('999) do not teach the use of filler material to create said enforced portions. Benoit ('827) teaches the use of a reinforcement (8L) (filler material) to form enforced portions that allow rollers to be mounted in the resulting composite skate frame (see col. 5, lines 45-52). Therefore, it would have been obvious for one of ordinary skill in the art to have provided reinforced sections of filler material as taught by Benoit ('827) in the skate frame obtained by the process of Liu ('958) in view of Buzza *et al.* ('999) because, Benoit ('827) teaches that the use of a reinforcement (8L) (filler material) allows for an improved product by forming a better mounting region for the rollers, hence providing for an improved product and also because, Liu ('958) suggests using a thicker, enforced section (23) for mounting rollers and all references teach similar end-products and materials.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

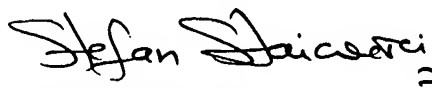
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stefan Staicovici, Ph.D. whose telephone number is (571) 272-1208. The examiner can normally be reached on Monday-Friday 9:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni, can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stefan Staicovici, PhD


Primary Examiner

7/24/05

AU 1732

July 24, 2005